

CLAIMS

WHAT IS CLAIMED IS:

1. A piston for an internal combustion engine comprising:

a) a piston body comprising:

I) at least two pin bosses;

ii) at least one piston head coupled to said at least two pin bosses;

iii) at least one pin boss support for coupling said at least two pin bosses to said at least one piston head; and

iv) at least one circumferential projection that extends radially out from a longitudinal axis of said body; and

b) at least one ring element screwed onto said piston body so that said ring element and said at least one circumferential projection form a cooling channel in said piston body, wherein said at least one circumferential projection forms a support ring in the form of a cup spring which can be deformed when said ring element is screwed onto said body.

2. The piston as in claim 1, wherein said ring element has a face that faces said at least two pin bosses, wherein said ring element has a recess that is directed towards a radially inside region, bounded by a radially extending surface and an axially oriented surface extending normal to said radially extending surface, and axially with a direction of said pin bosses and wherein said at least one circumferential projection has a corresponding radially extending surface, and a corresponding axially extending surface, which rest against said radially extending surface and said axially extending surface respectively, of said ring element after said ring element has been screwed onto said body.

3. The piston as in claim 2, wherein said ring element has a plurality of threads and said piston body has a plurality of threads, corresponding to said threads on said ring element, wherein when said ring element is screwed onto said piston body, and said at least one circumferential projection is deformed so that said axial face of said at least one circumferential projection contacts said axial face of said ring element and said radial face of said at least one circumferential projection contacts said radial face of said ring element wherein said deformation of said at least one circumferential projection

provides a counteracting force to contribute to a strength of a screw connection between said ring element and said body.